Title (en)

Ventilation apparatus with feedback compensation control and method for operating the same

Title (de)

Belüftungsvorrichtung mit Rückkopplungssteuerung, und Verfahren zum Betrieb davon

Title (fr)

Appareil de ventilation avec commande de compensation de rétroaction et son procédé de fonctionnement

Publication

EP 2528223 A3 20131030 (EN)

Application

EP 12003991 A 20120522

Priority

TW 100117883 A 20110523

Abstract (en)

[origin: EP2528223A2] A ventilation apparatus with a two-section feedback compensation control and a method for operating the same are disclosed. The ventilation apparatus includes a power conversion unit (10), a driven circuit (20), a DC motor (30), a current-sensing unit (40), a voltage compensation unit (60), and a control unit (50). The power conversion unit (10) receives and converts an AC power voltage (Vac) into a DC power voltage (Vo). The driven circuit (20) receives the DC power voltage (Vo) and outputs a driven voltage. The DC motor (30) is driven through the driven voltage. The current-sensing unit (40) senses an output current of the DC motor (30). The control unit (50) receives the output current to compare to a threshold current value, thus controlling the voltage compensation unit (60). Accordingly, the DC power voltage (Vo) is adjusted to adjust the speed of the DC motor (30).

IPC 8 full level

H02P 7/29 (2006.01); **H02P 29/00** (2006.01)

CPC (source: EP US)

F24F 11/77 (2017.12 - EP US); **H02P 7/29** (2013.01 - EP US); Y02B 30/70 (2013.01 - EP)

Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2528223 A2 20121128; **EP 2528223 A3 20131030**; **EP 2528223 B1 20170705**; TW 201249093 A 20121201; TW I435530 B 20140421; US 2012299525 A1 20121129; US 8749185 B2 20140610

DOCDB simple family (application)

EP 12003991 A 20120522; TW 100117883 A 20110523; US 201113250273 A 20110930